

GUS-0253 *cy 1*

13 May 1959

MEMORANDUM FOR : Deputy Director (Plans)
25X1A THROUGH : Acting Chief, DPD *QPB*
SUBJECT : Evaluation of shell-Schmidt system for GUSTO

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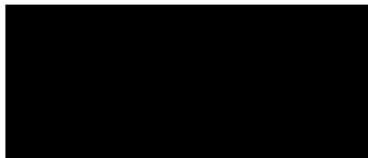
1. The attached preliminary P & E proposal is forwarded for your information and consideration. It should be noted that compartment size has caused a reduction from the [redacted] inch focal length to [redacted] inches. If sufficient space should be made available to allow utilization of the [redacted] inch system, it will weigh approximately 780 pounds which far exceeds the 560 pounds available in the [redacted] vehicle. P & E is continuing to investigate the possibility of employing the shell-Schmidt system as proposed by Doctor Baker. It is hoped that evaluation can be completed and the desired GUSTO system selected by the first of June.

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2. A meeting is scheduled between representatives of P & E and [redacted] in Fort Worth, Texas on 14 May 1959 to select and firm up the aircraft bay to be used for reconnaissance equipments.

3. After your review it is desired that the attached evaluation be returned to D and P for file and reference.

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ATTACHMENT
Proposal (P & E)

DOCUMENT NUMBER 17
TOTAL PAGES (Excluding Cover) 7
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1. LONG FOCAL LENGTH DOESN'T INSURE HIGH RESOLUTION -
ONLY LARGER SCALE. *if data is all done in ground*

2.

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3. OTHER FACTORS THAN ALTITUDE WOULD DEGRADE
'B' IN [REDACTED] - INCLUDED ARE HIGHER AIRCRAFT
SPEED, HIGHER VIBRATION FREQUENCIES, REQUIREMENT FOR
HIGHER RATES OF FILM TRANSPORT + SHUTTER
SPEED, + LONGER AIR PATH (ALTITUDE).
ENVIRONMENTAL EFFECTS - SKIN FRICTION HEAT,
HIGH MACH REQUIRING QUARTZ WINDOW -
STABILIZING ^{ENVIRONMENTAL} DISTORTION OF WINDOW TO
INSURE OPTICAL FLATNESS, ETC.

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27th May

Bygones volume